

## **Claims**

1. A process for constructing a compartmentalized hydrogen storage vessel comprising:

disposing a honeycomb configured compartmentalization structure inside a metallic cylindrical structure having at least one opening;

forming a restrictive neck from said at least one opening by reducing the diameter of said at least one opening; and

filling said honeycomb configured compartmentalization structure with a hydrogen storage alloy.

2. The process according to claim 1, wherein said honeycomb configured compartmentalization structure comprises at least one block having a honeycomb configuration.

3. The process according to claim 2, wherein said blocks comprise a plurality of adjacent cells having a cell wall, an open top, and an open bottom.

4. The process according to claim 2, wherein said blocks are comprised of a corrugated material.

5. The process according to claim 1, wherein said diameter of said at least one opening is reduced via a spinning process.